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10/766,758	01/27/2004	Robert Jensen	021751-000710US	2259
68218 7590 11/27/2007 TOWNSEND AND TOWNSEND AND CREW, LLP/PIXAR TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834			EXAMINER PHAM, MICHAEL	
			ART UNIT 2167	PAPER NUMBER
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.

10/766,758

Applicant(s)

JENSEN ET AL.

Examiner

Michael D. Pham

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 13 September 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 4-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- ☐ Notice of Informal Patent Application
- ☐ Other: \_\_\_\_\_

**Detailed Action**

***Status of claims***

1. Claims 1-2 and 4-18 are pending.
2. Claims 1-2 and 4-18 have been examined.

***Specification***

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

***Claim Rejections - 35 USC § 101***

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 14-18 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

MPEP 2106.01:

**The claims lack the necessary physical articles or objects to constitute a machine or a manufacture within the meaning of 35 USC 101. They are clearly not a series of steps or acts to be a process nor are they a combination of chemical compounds to be a composition of matter. As such, they fail to fall within a statutory category. They are, at best, functional descriptive material *per se*.**

**Descriptive material can be characterized as either “functional descriptive material” or “nonfunctional descriptive material.” Both types of “descriptive material” are nonstatutory when claimed as descriptive material *per se*, 33 F.3d at 1360, 31 USPQ2d at 1759. When functional descriptive material is recorded on some computer-readable medium, it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare *In re Lowry*, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994)**

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**Merely claiming nonfunctional descriptive material, i.e., abstract ideas, stored on a computer-readable medium, in a computer, or on an electromagnetic carrier signal, does not make it statutory. See *Diehr*, 450 U.S. at 185-86, 209 USPQ at 8 (noting that the claims for an algorithm in *Benson* were unpatentable as abstract ideas because “[t]he sole practical application of the algorithm was in connection with the programming of a general purpose computer.”).**

The claims recite a machine-readable medium. In paragraph 0037 of the specifications provided by applicant's recites in part that tangible media includes optical storage media such as barcodes. Light transmission is not considered statutory. Further the machine readable-medium appears to cover anything and everything under the sun as there is nothing in the specifications that clearly define a machine-readable medium. In paragraph 0037 of the specifications provided by applicant's recites in part that tangible media includes optical storage media such as barcodes. Light transmission is not considered statutory. As such, the claim is drawn to a form of energy. Energy is not one of the four categories of invention and therefore this claim(s) is/are not statutory. Energy is not a series of steps or acts and thus not a process. Energy is not a physical article or object and as such is not a machine or manufacture. Energy is not a combination of substances and therfor not a composition of matter.

### ***Claim Rejections - 35 USC § 103***

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 1-2 and 4-18 rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 6768486 by Szabo et. al. (hereafter Szabo) further in view of US Patent 6510516 by Benson et. al. (hereafter Benson).

### **Claim 1:**

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Szabo discloses the following claimed limitation:

“opening a first file in an object environment running on the computer system, the first file including a specification of a first object;” [column 14, lines 31-32, Derived Object – includes a list of modifier objects and a pointer to the base object. Col. 13 line 67-col. 14 lines 1-2, all objects are defined by three general properties: a collection of creation parameters, a pivot point, and a bounding box. Accordingly, opening a first file (derived object) in an object environment running on the computer system, the first file (derived object) including a specification of a first object (properties / includes list of modifier objects and a pointer to the base object) is suggested.]

“determining, from the specification of the first object, a reference to a second object;”[col. 14 lines 31-32, derived object – includes a list of modifier objects and a pointer to the base object. Col. 13 line 67-col. 14 lines 1-2, all objects are defined by three general properties: a collection of creation parameters, a pivot point, and a bounding box. Accordingly, determining, from the specification of the first object (properties / includes list of modifier objects and a pointer to the base object), a reference to a second object (a pointer to the base object) is suggested.]

“opening the second file in the object environment;”[ See column 18, lines 6 – 9  
Parameter menu 212 provides a list of parameters that are associated with the selected base object type that can be used to define specific parameters of the selected base object.  
Accordingly, opening the second file in the object environment (selected base object) is suggested]

“determining a modified value for a” “attribute of the second object; and”[ See column 18, lines 6 – 9 “Parameter menu 212 provides a list of parameters that are associated with the selected base object type that can be used to define specific parameters of the selected base object.” Accordingly, determining a modified value for a attribute (define specific parameters) of the second object (base object) is suggested.]

“including, in the first file, the reference to the second object and the modified value for the” “attribute of the second object;”[ column 14, lines 31-32, Derived Object – includes a list of modifier objects and a pointer to the base object. Accordingly, including, in the first file (derived object), the reference to the second object (pointer to the base object) and the modified value for the attribute of the second object (list of modifier objects) is suggested]

“wherein the specification of the second object is not stored in the first file; and”[ See column 15, lines 9 – 14 “Derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers..., a transform 830, and a pointer to a base object 810. the derived object 870 maintains a reference to base object 810, a reference to transform 830, and a list of modifiers.” Because the reference is stored in the file, the actual specifications of the second object is not stored in the first file.]

“wherein values for the plurality of” “attributes of the second object cannot be modified by users of the first file.”[ col. 19, lines 57 – 61 For example, as discussed in further detail below, the appropriate actions may include the modification of the geometry object and/or the ‘disabling’ of a higher-ordered component within the modifier stack. The “disabling” is interpreted to mean the attributes are not able to be modified. Accordingly, wherein values for

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the plurality of attributes of the second object cannot be modified by users of the first file (disabling of higher-ordered component) is suggested.]

Szabo does not explicitly disclose “receiving a second file in response to the reference to the second object, the second file including a specification of the second object, the specification of the second object including information identifying a plurality of public attributes of the second object and a plurality of private attributes of the second object”; “public attributes”; and “private attributes” alone.

On the other hand, Benson discloses:

“Public attributes” [col. 5 line 11, public keys]

“Private attributes” [col 5 line 11, private keys]

“receiving a second file in response to the reference to the second object, the second file including a specification of the second object, the specification of the second object including information identifying a plurality of public attributes of the second object and a plurality of private attributes of the second object;” [col. 3 lines 35-36, it is noted that each of the peer data objects 118 is a data object as defined herein with the term peer merely distinguishing its role. Col. 3 lines 24-25, the data object may be maintained in a java archive file. Col. 3 lines 37-39, the schema of the data object 112 and the peer objects 118 is set forth below with reference to figure 3. col. 4 line 43-46, the data object 112 also includes a peer list 202. The peer list 202 defines all the peer data objects, such as are shown in figure 1, that are needed by the data object 212 for proper operation. Col. 4 lines 62-65, the data object 112 also includes a signature list

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204. The signature list 204 contains one or more digital signatures that can be used to identify of one or more signers of the signatures in the signature list. Col. 5 line 11, public and private keys are available for the data object 112. Accordingly, receiving a second file (file) in response to the reference to the second object (peer data object), the second file including a specification of the second object (figure 3), the specification of the second object (figure 3) including information identifying (figure 3 element 204) a plurality of public attributes of the second object (public keys) and a plurality of private attributes of the second object (private keys).]

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have applied the disclosure of Benson above, to the disclosure of Szabo for the purpose of allowing authorized personal to modify data objects in a collaborative object environment. As Benson discloses for example data object 112 was created by Acme corporation. And different peer data objects are responsible for different procedures such as word processing, editing of documents, or viewing objects. If the data object 112 is distributed to an employee Acme can setup the data object such that the data object 112 is not authorized to connect with the peer data object that is responsible for editing. Therefore, Benson offers further control over data objects.

**Claim 2:**

The combination of Szabo and Benson disclose in Benson, "the method of claim 1 wherein the first file and the second file are stored on a storage system, and wherein the storage system is



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selected from a group consisting of: a network directory, an asset management system, and a database management system” [Benson, figure 1 element 104].

**Claim 4:**

The combination of Szabo and Benson disclose in Szabo, “the method of claim 1 further comprising geometrically coupling the first object to the second object in the object environment” [See column 18, lines 24-29, Currently, modifier stack 214 includes a base object (GeoSphere 224), and two modifiers (Bend modifier 226 and Taper modifier 228). FIG 2B depicts an example of an underlying modifier stack 250 that has been generated based on the user’s current selections as depicted in modifier stack 214. Here, 226 and 228 represent objects which are coupled in the object environment.]

**Claim 5:**

The combination of Szabo and Benson disclose in Szabo,

“determining, from the specification of the first object, a reference to a third object;”[col. 11 lines 51-53, the reference allows a scene to be rendered and allows for the use of modifiers by multiple objects. Col. 14 lines 31-32, derived object- includes a list of modifier objects and a pointer to the base object. Allowing for use by multiple objects would include a third object or any number of objects.]

“receiving a third file in response to the reference to the third object,”[col. 16 lines 8-9, the basic description is then provided to the object space modifier 820 in the modifier stack 889.]

“opening the third file in the object environment; and”[col. 15 lines 9-14, derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers..., a transform 830, and a pointer to a base object 810. Col. 16 line 10-11, object space modifier 820 modifies this basic description to generate a modified description.]

“modifying a value for a public attribute of the third object from a default value to an override value stored in the first file.” [col. 15 lines 9-14, derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers..., a transform 830, and a pointer to a base object 810. Col. 16 line 10-11, object space modifier 820 modifies this basic description to generate a modified description.]

Szabo does not explicitly disclose

“the third file including a specification of the third object, the specification of the third object including information identifying a plurality of public attributes of the third object and a plurality of private attributes of the third object;”

Benson discloses “the third file including a specification of the third object, the specification of the third object including information identifying a plurality of public attribute of the third object and a plurality of private attribute of the third object”[ col. 3 lines 35-36, it is noted that each of the peer data objects 118 is a data object as defined herein with the term peer merely distinguishing it’s role. Col. 3 lines 24-25, the data object may be maintained in a java archive file. Col. 3 lines 37-39, the schema of the data object 112 and the peer objects 118 is set forth below with reference to figure 3. col. 4 line 43-46, the data object 112 also includes a peer list

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202. The peer list 202 defines all the peer data objects, such as are shown in figure 1, that are needed by the data object 212 for proper operation. Col. 4 lines 62-65, the data object 112 also includes a signature list 204. The signature list 204 contains one or more digital signatures that can be used to identify of one or more signers of the signatures in the signature list. Col. 5 line 11, public and private keys are available for the data object 112. Accordingly, the third file (file) including a specification of the third object (figure 3), the specification of the third object (figure 3) including information identifying (figure 3 element 204) a plurality of public attribute of the third object (public key) and a plurality of private attribute of the third object (private key) is suggested.]

**Claim 6:**

The combination of Szabo and Benson disclose in Szabo,

“opening a third file in the object environment, the third file including a specification of a third object;” [col. 15 lines 9-14, derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers..., a transform 830, and a pointer to a base object 810. Col. 16 line 10-11, object space modifier 820 modifies this basic description to generate a modified description.]

“determining, from the specification of the third object, a second reference to the second object;” [See column 14, lines 31-32 “Derived Object – includes a list of modifier objects and a pointer to the base object.” And see column 16, lines 7-9 “Specifically, base object 810 provides the basic description of the object.”]

“creating, in response to the second reference to the second object, a second instance of the second object in the object environment; and” [See column 15, lines 8-9 “The derived object instance is created when a user creates an object in a scene.”]

“modifying a value for a public attribute of the second instance of the second object from a default value to an override value stored in the third file.” [See column 15, lines 9 – 14

“Derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers..., a transform 830, and a pointer to a base object 810.” And see column 16, lines 10 – 11 “Object space modifier 820 modifies this basic description to generate a modified description.”]

**Claim 7:**

The combination of Szabo and Benson disclose in Szabo,

“modifying the specification of the second object to include an additional public attribute of the second object;” [See column 11, lines 53-55 “The reference allows changes in the base object to be broadcast to any objects that are referring to that base object.” Adding an additional attribute is one of many changes that could be incorporated.]

“storing the modified specification of the second object in the second file;” [See column 16, lines 8-9 “The basic description is then provided to the object space modifier 820 in the modifier stack 880.” Here, because the changes to the second object is propagated upon being referenced, the modified object is the one that will be received.]

“reopening the first file in the object environment;” [See column 14, lines 31-32 “Derived Object – includes a list of modifier objects and a pointer to the base object.” And see column 16, lines 7-9 “Specifically, base object 810 provides the basic description of the object.”]

“determining, from the specification of the first object, the reference to the second object;” [column 14, lines 31-32 “Derived Object – includes a list of modifier objects and a pointer to the base object.”]

“receiving the second file in response to the reference to the second object, the second file including the modified specification of the second object;” [See column 16, lines 8-9 “The basic description is then provided to the object space modifier 820 in the modifier stack 880.” Here, because the changes to the second object is propagated upon being referenced, the modified object is the one that will be received.]

“opening the second file in the object environment;” [See column 15, lines 9 – 14 “Derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers... a transform 830, and a pointer to a base object 810.” And see column 16, lines 10 – 11 “Object space modifier 820 modifies this basic description to generate a modified description.”]

“modifying a value for the additional public attribute of the second object in the object environment; and” [See column 15, lines 9 – 14 “Derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers... a transform 830, and a pointer to a base object 810.” And see column 16, lines 10 – 11 “Object space modifier 820 modifies this basic description to generate a modified description.”]

“including, in the first file, the modified value for the additional public attribute.” [See column 16, lines 7 - 8 “Specifically, base object 810 provides the basic description of the object.” Here, the basis description would now include the additional attribute as it was propagated when subsequently referenced.]

**Claim 8:**

Szabo discloses the following claimed limitations:

“a processor communicatively coupled with the storage system, wherein the processor is configured to:

open the first file in an object environment;”[column 15, lines 7-8 “The derived object is an instance of the DerivedObject class. The derived object instance is created when a user creates an object in a scene”]

“determining, from the specification of the first object, a reference to the second object;” [col. 14 lines 31-32, derived object – includes a list of modifier objects and a pointer to the base object. Col. 13 line 67-col. 14 lines 1-2, all objects are defined by three general properties: a collection of creation parameters, a pivot point, and a bounding box. Accordingly, determining, from the specification of the first object (properties / includes list of modifier objects and a pointer to the base object), a reference to a second object (a pointer to the base object) is suggested.]

“determine, from the specification of the first object, a value for a public attribute of the second object;” ”[ See column 18, lines 6 – 9 “Parameter menu 212 provides a list of parameters that are associated with the selected base object type that can be used to define

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specific parameters of the selected base object.” Accordingly, determining a modified value for a attribute (define specific parameters) of the second object (base object) is suggested.]

“provide, to the storage system, the reference to the second object;” [column 15, lines 9 – 12 “Derived object 870 maintains a modifier stack. The modifier stack includes a list of modifiers...and a pointer to a base object 810.”]

“receive the second file from the storage system;” [See column 16, lines 8-9 “The basic description is then provided to the object space modifier 820 in the modifier stack 880.”]

“open the second file; and” [ See column 18, lines 6 – 9 Parameter menu 212 provides a list of parameters that are associated with the selected base object type that can be used to define specific parameters of the selected base object. Accordingly, opening the second file in the object environment (selected base object) is suggested]

“override a default value for the public attribute of the second object with the value determined from the specification of the first object;” [See column 16, lines “Object space modifier 820 modifies this basic description to generate a modified description.”]

“wherein the specification of the second object is not stored in the first file; and” [ See column 15, lines 9 – 14 “Derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers..., a transform 830, and a pointer to a base object 810. the derived object 870 maintains a reference to base object 810, a reference to transform 830, and a list of modifiers.” Because the reference is stored in the file, the actual specifications of the second object is not stored in the first file.]

“wherein values for the plurality of private attributes of the second object cannot be modified by users of the first file.” [See column 19, lines 57 – 61 “For example, as discussed in further detail below, the appropriate actions may include the modification of the geometry object and/or the ‘disabling’ of a higher-ordered component within the modifier stack.” The “disabling” is interpreted to mean the attributes are not able to be modified.]

Szabo does not explicitly disclose “a storage system configured to store a first file including a specification of a first object and a second file including a specification of a second object, the specification of the second object including information identifying a plurality of public attributes of the second object and a plurality of private attributes of the second object; and”; “private attributes”; and “public attributes”.

However Benson discloses

“Public attributes” [col. 5 line 11, public keys]

“Private attributes” [col 5 line 11, private keys]

“a storage system configured to store a first file including a specification of a first object and a second file including a specification of a second object, the specification of the second object including information identifying a plurality of public attributes of the second object and a plurality of private attributes of the second object; and” [col. 3 lines 35-36, it is noted that each of the peer data objects 118 is a data object as defined herein with the term peer merely distinguishing it’s role. Col. 3 lines 24-25, the data object may be maintained in a java archive



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file. Col. 3 lines 37-39, the schema of the data object 112 and the peer objects 118 is set forth below with reference to figure 3. col. 4 line 43-46, the data object 112 also includes a peer list 202. The peer list 202 defines all the peer data objects, such as are shown in figure 1, that are needed by the data object 212 for proper operation. Col. 4 lines 62-65, the data object 112 also includes a signature list 204. The signature list 204 contains one or more digital signatures that can be used to identify of one or more signers of the signatures in the signature list. Col. 5 line 11, public and private keys are available for the data object 112. Accordingly, a storage system (figure 1) configured to store a first file (file) including a specification of a first object (data object) and a second file (file) including a specification of a second object (peer data object), the specification of a first object (figure 3) and a second file (file) including a specification of a second object (figure 3), the specification of the second object (figure 3) including information identifying (figure 3 element 204) a plurality of public attributes of the second object (public key) and a plurality of private attributes of the second object (private key) is suggested.]

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have applied the disclosure of Benson above, to the disclosure of Szabo for the purpose of allowing authorized personal to modify data objects in a collaborative object environment. As Benson discloses for example data object 112 was created by Acme corporation. And different peer data objects are responsible for different procedures such as word processing, editing of documents, or viewing objects. If the data object 112 is distributed to an employee Acme can setup the data object such that the data object 112 is not authorized to

connect with the peer data object that is responsible for editing. Therefore, Benson offers further control over data objects.

**Claim 9:**

The combination of Szabo and Benson disclose in Benson, “wherein the storage system is selected from a group consisting of: a network directory, an asset management system, and a database management system” [Benson, figure 1 element 104].

**Claim 10:**

The combination of Szabo and Benson disclose in Szabo, “Modify the value for the public attribute of the second object; and” [ See column 18, lines 6 – 9 “Parameter menu 212 provides a list of parameters that are associated with the selected base object type that can be used to define specific parameters of the selected base object.” ]

“Include the modified value for the public attribute of the second object in the first file.”  
[column 14, lines 31-32, Derived Object – includes a list of modifier objects and a pointer to the base object.]

**Claim 11:**

The combination of Szabo and Benson disclose in Szabo, “wherein the processor is further configured to geometrically manipulate the first object and the second object” [See column 18, lines 24-29 “Currently, modifier stack 214 includes a base object (GeoSphere 224), and two

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modifiers (Bend modifier 226 and Taper modifier 228). FIG 2B depicts an example of an underlying modifier stack 250 that has been generated based on the user's current selections as depicted in modifier stack 214." Here, 226 and 228 represent objects which are coupled in the object environment.].

**Claim 12:**

The combination of Szabo and Benson disclose in Szabo, "wherein the storage system is further configured to store a third file including a specification of a third object,"[ col. 11 lines 51-53, the reference allows a scene to be rendered and allows for the use of modifiers by multiple objects] and

Wherein the processor is further configured to:

Determine, from the specification of the first object, a reference to the third object;" [col. 11 lines 51-53, the reference allows a scene to be rendered and allows for the use of modifiers by multiple objects. Col. 14 lines 31-32, derived object- includes a list of modifier objects and a pointer to the base object. Allowing for use by multiple objects would include a third object or any number of objects.]

"Determine, from the specification of the first object, a value for a public attribute of the third object;" [col. 15 lines 9-14, derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers..., a transform 830, and a pointer to a base object 810. Col. 16 line 10-11, object space modifier 820 modifies this basic description to generate a modified description.]

“Provide, to the storage system, the reference to the third object;” [col. 16 lines 8-9, the basic description is then provided to the object space modifier 820 in the modifier stack 889.]

“Receive the third file from the storage system;” [col. 16 lines 8-9, the basic description is then provided to the object space modifier 820 in the modifier stack 889.]

“Open the third file;” [col. 15 lines 9-14, derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers..., a transform 830, and a pointer to a base object 810. Col. 16 line 10-11, object space modifier 820 modifies this basic description to generate a modified description.]

“Override a default value for the public attribute of the third object with the value determined from the specification of the first object.” [col. 15 lines 9-14, derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers..., a transform 830, and a pointer to a base object 810. Col. 16 line 10-11, object space modifier 820 modifies this basic description to generate a modified description.]

**Claim 13:**

The combination of Szabo and Benson disclose in Szabo,

“Determine, from the specification of the first object, another reference to the second object;” [See column 15, lines 7-9 “The derived object 870 is an instance of the DerivedObject class. The derived object instance is created when a user creates an object in a scene.”]

“Determine, from the specification of the first object, another value for the public attribute of the second object;” [See column 15, lines 9-10 “Derived object 870, maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers...” Here, the value of the attribute is overridden based on that value of the modifier in the modifier stack.]

“Create another instance of the second object in the object environment; and” [See column 15, lines 8-9 “The derived object instance is created when a user creates an object in a scene.”]

“Override a default value for the public attribute of the another instance of the second object with the another value determined from the specification of the first object.” [See column 16, lines “Object space modifier 820 modifies this basic description to generate a modified description.”]

**Claim 14:**

Szabo discloses the following claimed limitations:

“Create a first object in an object environment;” [See column 15, lines 8-9 “The derived object instance is created when a user creates an object in a scene.”]

“determine a reference to a specification of a second object stored in a storage system communicatively coupled to the processing component”[ See column 14, lines 31-32 “Derived Object – includes a list of modifier objects and a pointer to the base object.” And see column 16, lines 7-9 “Specifically, base object 810 provides the basic description of the object.”]

“Create an instance of the second object in the object environment;” [See column 15, lines 8-9 “The derived object instance is created when a user creates an object in a scene.”]

“Determine a modified value for a public attribute of the second object; and” [See column 15, lines 9 – 14 “Derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers..., a transform 830, and a pointer to a base object 810. the derived object 870 maintains a reference to base object 810, a reference to transform 830, and a list of modifiers.”]

“Override a default value for the public attribute with the modified value,” [See column 16, lines “Object space modifier 820 modifies the basic description to generate a modified description.”]

“Wherein the public attribute of the second object stored in the storage system is not modified; and” [See column 2, lines 16 – 26 “...define a base object by selecting a particular object type from a set of predefined object types and selecting a set of parameter values that are the be used to define the specific parameters of the base object...the user may define one or more modifiers or other types of components that are applied to the base object for modifying certain characteristics, properties, attributes, constraints and other parameters of the base object...the object can then be exported for use in a graphics application.” Once the base object is defined, the attributes stored on the server is not modified, rather modifiers can be applied to instances of a created object that references the base object.]

“Wherein values for the plurality of private attributes of the second object cannot be modified by users of the first object.” [See column 40, lines 56 – 58 “Such instructions may be read into main memory 706 from another computer-readable medium such as a storage device”].

Szabo does not explicitly disclose “the specification of the second object including information identifying a plurality of public attributes of the second object and a plurality of private attributes of the second object”; “public attributes”; and “private attributes”.

However Benson discloses

“Public attributes” [col. 5 line 11, public keys]

“Private attributes” [col 5 line 11, private keys]

“Determine a reference to a specification of a second object stored in a storage system communicatively coupled to the processing component, the specification of the second object including information identifying a plurality of public attributes of the second object and a plurality of private attributes of the second object” [col. 3 lines 35-36, it is noted that each of the peer data objects 118 is a data object as defined herein with the term peer merely distinguishing it's role. Col. 3 lines 24-25, the data object may be maintained in a java archive file. Col. 3 lines 37-39, the schema of the data object 112 and the peer objects 118 is set forth below with reference to figure 3. col. 4 line 43-46, the data object 112 also includes a peer list 202. The peer list 202 defines all the peer data objects, such as are shown in figure 1, that are needed by the data object 212 for proper operation. Col. 4 lines 62-65, the data object 112 also includes a signature list 204. The signature list 204 contains one or more digital signatures that can be used to identify of one or more signers of the signatures in the signature list. Col. 5 line 11, public and private keys are available for the data object 112. Accordingly, the specification of the second object (figure 3) including information identifying (figure 3 element 204) a plurality of

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public attributes of the second object (public key) and a plurality of private attributes of the second object (private key) is suggested.]

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have applied the disclosure of Benson above, to the disclosure of Szabo for the purpose of allowing authorized personal to modify data objects in a collaborative object environment. As Benson discloses for example data object 112 was created by Acme corporation. And different peer data objects are responsible for different procedures such as word processing, editing of documents, or viewing objects. If the data object 112 is distributed to an employee Acme can setup the data object such that the data object 112 is not authorized to connect with the peer data object that is responsible for editing. Therefore, Benson offers further control over data objects.

**Claim 15:**

The combination of Szabo and Benson disclose in Benson, “wherein the storage system is selected from a group consisting of: a directory server, a asset management server, and a database server”[Benson, figure 1 element 104].

**Claim 16:**

Szabo discloses the following claimed limitations:

“Create a first file including a specification of the first object, the reference to the specification of the second object in the storage system, and the modified value for the public



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attribute; and” [See column 15, lines 9 – 13 “Derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers...and a pointer to a base object 810. The derived object 870 maintains a reference to a base object 810...and a list of modifiers.” Because the reference is stored in the file, the actual second object is not stored in the first file.]

“Wherein the first file excludes the specification of the second object.” [See column 15, lines 9 – 13 “Derived object 870 maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers...and a pointer to a base object 810. The derived object 870 maintains a reference to a base object 810...and a list of modifiers.” Because the reference is stored in the file, the actual second object is not stored in the first file.]

Szabo does not explicitly disclose:

“Provide the first file to the storage system for storage;”

On the other hand, Benson discloses “provide the first file to the storage system for storage” [figure 1, illustrates a storage system containing data objects]

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have applied the disclosure of Benson above, to the disclosure of Szabo for the purpose of allowing authorized personal to modify data objects in a collaborative object environment. As Benson discloses for example data object 112 was created by Acme corporation. And different peer data objects are responsible for different procedures such as

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word processing, editing of documents, or viewing objects. If the data object 112 is distributed to an employee Acme can setup the data object such that the data object 112 is not authorized to connect with the peer data object that is responsible for editing. Therefore, Benson offers further control over data objects.

**Claim 17:**

The combination of Szabo and Benson disclose in Szabo,

“Create an additional instance of the second object in the object environment;” [See column 15, lines 7-9 “The derived object 870 is an instance of the DerivedObject class. The derived object instance is created when a user creates an object in a scene.”]

“Determine a modified value for a public attribute of the additional instance of the second object; and” [See column 15, lines 9-10 “Derived object 870, maintains a modifier stack 880. The modifier stack 880 includes a list of modifiers...” Here, the value of the attribute is overridden based on that value of the modifier in the modifier stack.]

“Override a default value for the public attribute of the additional instance of the second object with the modified value.” [See column 16, lines “Object space modifier 820 modifies this basic description to generate a modified description.”]

**Claim 18:**

The combination of Szabo and Benson disclose in Szabo, “wherein the modified value for the public attribute of the instance of the second object and the modified value for the public attribute of the additional instance of the second object are different.” [See column 15, lines 9-10

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“Derived object 870 maintains a modifier stack 880. The modifiers stack 880 includes a list of modifiers...” Because each derived object maintains its own stack, the attribute modifiers can be different for each object.]

***Response to Arguments***

9. Applicant's arguments with respect to claim 1-2 and 4-18 have been considered but are moot in view of the new ground(s) of rejection.

*Conclusion*

10. The prior art made of record listed on PTO-892 and not relied, if any, upon is considered pertinent to applicant's disclosure.

11. In future responses please provide support for all amendments and/or assertions being made wherever possible from specifications.

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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*Contact Information*

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael D. Pham whose telephone number is (571)272-3924.

The examiner can normally be reached on Monday - Friday 9am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on 571-272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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